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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/221,789	12/28/1998	ULRIKE REEH	12406-003001	4121	
75	590 01/02/2002				
WILLIAM E. BOOTH			EXAMINER		
FISH & RICHA 225 FRANKLI	N STREET		JACKSON JR, JEROME		
BOSTON, MA 02110-2804			ART UNIT	PAPER NUMBER	
	.*		. 2815	28	
•			DATE MAILED: 01/02/2002	DATE MAILED: 01/02/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 07-01)

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Office Action Summary	Application No. 22/789	Applicant(s) Real	
Office Action Summary	Examiner	Group A	
		281)
-The MAILING DATE of this communication appears	on the cover sheet b	eneath the correspond	ence address
Peri d for Reply			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO OF THIS COMMUNICATION.	EXPIRE 3	MONTH(S) FROM TH	HE MAILING DATE
 Extensions of time may be available under the provisions of 37 CFR 1.1 from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a repleted NO period for reply is specified above, such period shall, by default, espailing to reply within the set or extended period for reply will, by statute 	y within the statutory minim xpire SIX (6) MONTHS fror	num of thirty (30) days will be in the mailing date of this com	considered timely.
Status 2 / /		•	
Status Responsive to communication(s) filed on 9/23/6/	<u> </u>		
☐ This action is FINAL.			
 Since this application is in condition for allowance except to accordance with the practice under Ex parte Quayle, 1935 	or formal matters, pros C.D. 1 1; 453 O.G. 213	ecution as to the merits	s is closed in
Disposition of Claims	·	•	
\bigcirc Claim(s) $2, 4, 5, 10 - 34, 38$	is/are pending in	the emplication	
Of the above claim(s)			
. • •	is/are withdrawn f	rom consideration.	
□ Claim(s) 2, 4, 5, 10 - 34, 38	is/are allowed.		
□ Claim(s)	is/are objected to		
☐ Claim(s)————————————————————————————————————		are subject to rest requirement.	
	Pariani PTO 040		
 □ See the attached Notice of Draftsperson's Patent Drawing □ The proposed drawing correction, filed on 	• •		
☐ The drawing(s) filed on is/are objected		⊔ disapproved.	
☐ The specification is objected to by the Examiner.			
☐ The oath or declaration is objected to by the Examiner.			· .
Pri rity under 35 U.S.C. § 119 (a)-(d)			
☐ Acknowledgment is made of a claim for foreign priority unde	er 35 U.S.C. § 11 9(a)-	· (d)	
☐ All ☐ Some* ☐ None of the CERTIFIED copies of the			
☐ received.			
☐ received in Application No. (Series Code/Serial Number)			
☐ received in this national stage application from the Intern	•	,	
*Certified copies not received:		•	
Attachment(s)	•	•	•
☐ Information Disclosure Statement(s), PTO-1449, Paper No(s	terview Summary, PTO-4	113	
□ Notice of Reference(s) Cited, PTO-892	otice of Informal Patent A	pplication, PTO-152	
□ Notice of Draftsperson's Patent Drawing Review, PTO-948		other	
Office A	cti n Summary		•

U. S. Patent and Trademark Office PTO-326 (Rev. 9-97) Application/Control Number: 09/221,789

Art Unit: 2815

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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2. Claims 34,2,4,5,10-12,25,26,30-33, are rejected under 35 U.S.C. 103(a) as being unpatentable over Tadatsu '609 in view of Shimizu '794, Abe '230, Pearce '869, and Cox '693.

Tadatsu teaches a blue led encapsulated with fluor containing resin to improve the brightness and visibility of emission. From Shimizu it is suggested to practice yellow fluors in a device as Tadatsu to emit white light which is desirable for displays. From Abe, Pearce, and Cox taken together it would have been obvious to have practiced a thin uniform layer of fluor resin material in a device as Tadatsu with Shimizu to produce uniform brightness white light.

Applicant's claims 34,2,4,5,10-12, are obvious structure. Claims 25 and 26 are rejected because Shimizu teaches a dispersant material in the resin to improve emission quality. Claims 30-33 are rejected because the proposed uses of the device are obvious in the display art.

3. Claims 34,2,4,5,10-13,25,26,30-33, are rejected under 35 U.S.C. 103(a) as being unpatentable over Tadatsu with Shimizu, Abe, Pearce, Cox, and further in view of Thornton '758.

From Thornton it would have been obvious to have practiced multiple layers of uniform phosphor material to improve device design, reduce costs, etc. Claim 13 is obvious structure.

4. Claims 34,2,4,5,10-14,25,26,30-33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tadatsu with Shimizu, Abe, Pearce, Cox, and further in view of Tokailin '214.

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Tokailin teaches organic dyes in a resin matrix to enable white light emission. It would have been obvious to have practiced organic dyes in a device as Tadatsu to improve emission.

Claim 14 is obvious structure.

5. Claims 34,2,4,5,10-33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tadatsu with Shimizu, Abe, Pearce, Cox, Tokailin, and further in view of Mita, Chao, and Robbins.

From Mita, Chao, and Robbins it would have been obvious to have practiced inorganic fluor centers because they are shown to work excellently in epoxy based binders. Claims reciting inorganic fluors are obvious structure.

6. Claims 2,4,5,10-34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tadatsu with Shimizu, Abe, Pearce, Cox, Tokailin, and Sato.

Form Sato it would have been obvious to have practiced the white light emitting device of Tadatsu, etc in a display device. Claims 30-33 are obvious uses of the light emitter.

7. Claims 2,4,5,10-12,25,26,30-34,38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tadatsu with Shimizu, Abe, Pearce, Cox, and further in view of Matoba '345.

Matoba teaches fluorescent material covered by a transparent resign to improve brightness. It would have been obvious to have practiced the same in Tadatsu with Shimizu, etc to improve brightness. Claim 38 is obvious structure.

8. Applicant's arguments filed 9/23/01 have been fully considered but they are not persuasive.

The new rejection includes Shimizu which has not been applied heretofore. Arguments

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regarding a uniform layer of material are unconvincing because it was long known in the art of

display devices that uniform fluor material is beneficial for uniform light emission. It would have

been obvious to practice uniform thickness fluor moldings with solid state devices to effect the

same advantages of uniform light emission as taught in old fashioned devices.

Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Jerome Jackson whose telephone number is (703) 308-4937. The fax phone

number for the organization where this application or proceeding is assigned is (703) 308-7722.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703) 308-0956.

erome Jackson, Jr. Primary Examiner Page 4